

Math with Riddles - Order of Operations 5 KEY

Solve the math problems to solve the riddle.

C) $(9 - 3)^2 + (16 \div 4) = \underline{40}$

$$\begin{aligned} &6^2 + (16 \div 4) \\ &6^2 + 4 \\ &36 + 4 = \underline{40} \end{aligned}$$

K) $(38 - 2) \div 3 + 7^2 = \underline{61}$

$$\begin{aligned} &36 \div 3 + 7^2 \\ &36 \div 3 + 49 \\ &12 + 49 = \underline{61} \end{aligned}$$

S) $6 \times (14 + 4) + 2^2 = \underline{112}$

$$\begin{aligned} &6 \times 18 + 2^2 \\ &6 \times 18 + 4 \\ &108 + 4 = \underline{112} \end{aligned}$$

I) $(2 \times 5 + 3^2) + 6 = \underline{25}$

$$\begin{aligned} &(2 \times 5 + 9) + 6 \\ &(10 + 9) + 6 \\ &19 + 6 = \underline{25} \end{aligned}$$

A) $(85 - 5^2) \div (6 + 6) = \underline{5}$

$$\begin{aligned} &(85 - 25) \div (6 + 6) \\ &60 \div (6 + 6) \\ &60 \div 12 = \underline{5} \end{aligned}$$

T) $6 \times (9 - 2) + 2^2 = \underline{46}$

$$\begin{aligned} &6 \times 7 + 2^2 \\ &6 \times 7 + 4 \\ &42 + 4 = \underline{46} \end{aligned}$$

R) $(7 + 5)^2 + (18 \div 6) = \underline{147}$

$$\begin{aligned} &12^2 + (18 \div 6) \\ &144 + (18 \div 6) \\ &144 + 3 = \underline{147} \end{aligned}$$

D) $(32 - 2^2) \div (6 - 4) = \underline{14}$

$$\begin{aligned} &(32 - 4) \div (6 - 4) \\ &28 \div (6 - 4) \\ &28 \div 2 = \underline{14} \end{aligned}$$

Y) $(42 - 6) \div 3 + 6^2 = \underline{48}$

$$\begin{aligned} &36 \div 3 + 6^2 \\ &36 \div 3 + 36 \\ &12 + 36 = \underline{48} \end{aligned}$$

What has 3 feet but cannot walk?

A Y A R D S T I C K

5 48 5 147 14 112 46 25 40 61

Algebraic Expression Sudoku

ANSWER KEY

Evaluate the following. Place the answer to the question in the correct box indicated by the problem number to create a Sudoku puzzle that can be solved when completed.

Let $a = 3$, $b = 4$ and $c = 5$ for the following expressions:

- | | | |
|--------------------------------|---|---|
| 1C. $7b - c^2$ (3) | 4D. $c^2 - b^2$ (9) | 7A. $\frac{20c - (c - b)}{3b - 1}$ (9) |
| 1G. $8c - 8b$ (8) | 4F. $b^2 - (b + c)$ (7) | 7F. $c^2 - (4c + 3)$ (2) |
| 1H. $ab - c$ (7) | 4G. $a^2 - 2b$ (1) | 7I. $70 \div c - (b + 3)$ (7) |
| 2A. $3c - (a + b)$ (8) | 5B. $\frac{4(ac - 2a)}{b + c - a}$ (6) | 8D. $2bc - 9b$ (4) |
| 2E. $b^2 - ac$ (1) | 5E. $\frac{bc}{2 + a}$ (4) | 8E. $8ab - 16c - a^2$ (7) |
| 2F. $b + c - a$ (6) | 5H. $10a - b^2 - c$ (9) | 8I. $\frac{10ab}{bc + b}$ (5) |
| 3A. $a^2 - c$ (4) | 6C. $7a^2 - 6(b + c)$ (9) | 9A. $(9b^2 + a) \div 7a$ (7) |
| 3D. $b^2 - (b + c)$ (7) | 6D. $4c \div b - a$ (2) | 9B. $9a^2 - 11(a + b)$ (4) |
| 3I. $bc - a(b + 2)$ (2) | 6F. $a^2 - a - c$ (1) | 9C. $7b^2 - (20c + 4)$ (8) |
| 4B. $ab - 2c$ (2) | 6H. $\frac{5ab}{a + b + c}$ (5) | 9G. $b + c - 2a$ (3) |

9	7	4	8	1	5	9	3	2	6
8	2	1	6	4	7	3	9	8	5
7	9	3	5	6	8	2	4	1	7
6	3	8	9	2	6	1	7	5	4
5	1	6	7	8	4	5	2	9	3
4	5	2	4	9	3	7	1	6	8
3	4	5	1	7	9	8	6	3	2
2	8	7	2	3	1	6	5	4	9
1	6	9	3	5	2	4	8	7	1
	A	B	C	D	E	F	G	H	I